BOM Rotating Display Pico

1. RDpico_display

#	Reference	Qty	Description	source
1	A1	1	Raspberry Pi Pico W	https://www.raspberrypi.com/products/raspberry-pi-pico/
2	C1, C4	2	100nF,	https://www.digikey.com/short/2bw9dzmp
3	C2	1	220µF	https://www.digikey.com/short/hrdj5tbz
4	C3	1	100µF	https://www.digikey.com/short/mfjrnd3m
5	C8, C9, C10, C11, C12, C13, C14	7	10µ	https://www.digikey.com/short/zchpnfr9
6	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47, D48, D49, D50, D51, D52, D53, D54, D55, D56	56	LED	https://www.led1.de/shop/standard-leds/led-rechteckig-ultrahell/led-rechteckig-3x2-warmweiss-diffus-1800mcd-wehww02-d1m.html
7	J1	1	Micro_SD_Card Slot	https://www.digikey.com/short/5tpr3ntn
9	Q1, Q3, Q5, Q7, Q9, Q11, Q13	7	IRLML6401	https://www.digikey.com/short/mmh8j7pn
10	Q2, Q4, Q6, Q8, Q10, Q12, Q14	7	BS250	https://www.digikey.com/short/m88p5n9d
11	R1	1	10k	generic
12	R2	1	2.2k	generic
13	RN1, RN2	2	47 Ohm	https://www.digikey.com/short/ddr9td25
14	RN3	1	47k	https://www.digikey.com/short/2vwz5frm
15	SD1, SD2, SD3, SD4	4	1N5818	generic
16	U1	1	74HCT138	https://www.digikey.com/short/bbtft5nn
17	U2	1	A3144	Amazon
19	U4	1	LM1117-5.0	https://www.digikey.com/short/zrwjc997
20	U5	1	ULN2803A	https://www.digikey.com/short/pjrb5nj3

2. RDpico_PS

#	Reference	Qty	Value	Footprint
1	C1	1	33nF	https://www.reichelt.de/mkp10-pp-puls-kondensator-33-nf-10-630-vdc-rm-15-mkp10-630-33n-p31975.html?&nbc=1
2	C2	1	10 µF, 50V	https://www.digikey.com/short/mcj02zrf
3	C3	1	100 µF	https://www.digikey.com/short/m1qfmmt3
4	C4, C5	2	100 nF	https://www.digikey.com/short/2bw9dzmp
5	C6	1	10 µF, 50V	https://www.digikey.com/short/mcj02zrf
6	D2, D3	2	1N4001	https://www.digikey.de/short/vpbrpqr7
7	J2	1	Barrel_Jack_Switch_Pin3Ring	https://www.digikey.de/short/bm8m0bnr
8	L1	1	330 µH	https://www.reichelt.de/stehende-induktivitaet-09hvp-ferrit-330-h-l-09hvp-330--p255620.html?&nbc=1
9	M1	1	CD motor, RF-300F-12350	Amazon
10	Q1, Q2	2	TIP30C	https://www.digikey.com/short/vnqt5f7f
11	R2	1	2k2	generic
12	R3	1	270 Ohm	generic
13	R4	1	100 Ohm	generic

14	RV1	1	1k	https://www.digikey.de/short/23pbq23z
15	SW1	1	switch	https://www.digikey.de/short/7zr2m040
16	U7	1	AP1117-ADJ	https://www.digikey.de/short/hphdjfzr
17	magnet	1	magnet, diameter 6mm, thickness 3 mm	Amazon1
18	screw	2	M2x6 screw	generic
19	M2 nuts	2	M2 nuts	generic
20	bolt	4	bolt M3x20mm, female - female	https://shop.der-schraubenladen.de/Abstandsbolzen-Distanzhalter-Distin-Innen-Innen-Messing-vernickelt/SW11544.26
21	screw	7	screw flat head, M3x6	https://shop.der-schraubenladen.de/schrauben/metrische-schrauben/schrauben-flachkopf/2144/iso-7380-2-linsenschraube-mit-flansch-innensechskant-edelstahl-a2?number=SW12060.28&c=10
22	bumper	4	bumper lens shape, diam. 6.4 mm, thickness 1.9 r	https://amzn.eu/d/7VAHGcK

3. PCBs

1	PCB RDpico_display PCB	1	4 layer PCB	custom made from Gerber files, various sources, for example JLCPCB.com
2	RDpico_motor_tray	1	2 layer PCB	custom made from Gerber files, various sources, for example JLCPCB.com
3	PCB RDpico_PS	1	2 layer PCB	custom made from Gerber files, various sources, for example JLCPCB.com
4	PCB Sek_coil V3	1	2 layer PCB	custom made from Gerber files, various sources, for example JLCPCB.com
5	PCB tray	1	2 layer PCB	custom made from Gerber files, various sources, for example JLCPCB.com